

(d) Include the name and address of the operator or another responsible party who can provide additional information about the hazardous chemical.

§ 47.43 Label alternatives.

The operator may use signs, placards, process sheets, batch tickets, operating procedures, or other label alternatives for individual, stationary process containers, provided that the alternative—

- (a) Identifies the container to which it applies,
- (b) Communicates the same information as required on the label, and
- (c) Is readily available throughout each work shift to miners in the work area.

§ 47.44 Temporary, portable containers.

(a) The operator does not have to label a temporary, portable container if he or she ensures that the miner using the portable container—

- (1) Knows the identity of the chemical, its hazards, and any protective measures needed, and
- (2) Leaves the container empty at the end of the shift.

(b) Otherwise, the operator must mark the temporary, portable container with at least the common name of its contents.

Subpart F—Material Safety Data Sheets (MSDS)

§ 47.51 Requirement for an MSDS.

Operators must have an MSDS for each hazardous chemical which they produce or use. The MSDS may be in any medium, such as paper or electronic, that does not restrict availability.

(a) For each hazardous chemical produced at the mine, the operator must prepare an MSDS, and update it with significant, new information about the chemical's hazards or protective measures within 3 months of becoming aware of this information.

(b) For each hazardous chemical brought to the mine, the operator must rely on the MSDS received from the chemical manufacturer or supplier, develop their own MSDS, or obtain one from another source.

(c) Although the operator is not responsible for an inaccurate MSDS obtained from the chemical's manufacturer, supplier, or other source, the operator must—

- (1) Replace an outdated MSDS upon receipt of an updated revision, and
- (2) Obtain an accurate MSDS as soon as possible after becoming aware of an inaccuracy.

(d) The operator is not required to prepare an MSDS for an intermediate chemical or by-product resulting from mining or milling if its hazards are already addressed on the MSDS of the source chemical.

§ 47.52 MSDS contents.

When an operator must prepare an MSDS for a hazardous chemical produced at the mine, the MSDS must—

- (a) Be legible, accurate, and in English;
- (b) Use a chemical identity that permits cross-referencing between the list of hazardous chemicals, the chemical's label, and its MSDS; and
- (c) Contain information, or indicate if no information is available, for the categories listed in Table 47.52 as follows:

TABLE 47.52—CONTENTS OF MSDS

Category	Requirements, descriptions, and exceptions
(1) Identity	The identity of the chemical or, if the chemical is a mixture, the identities of all hazardous ingredients. See § 47.21 (Identifying hazardous chemicals).
(2) Properties	The physical and chemical characteristics of the chemical, such as vapor pressure and solubility in water.
(3) Physical	The physical hazards of the chemical including the hazards potential for fire, explosion, and reactivity.
(4) Health hazards	The health hazards of the chemical including— <ul style="list-style-type: none"> (i) Signs and symptoms of exposure, (ii) Any medical conditions which are generally recognized as being aggravated by exposure to the chemical, and (iii) The primary routes of entry for the chemical, such as lungs, stomach, or skin.